

DAFTAR PUSTAKA

- [1] Badan Pusat Statistik Kota Bandung, “Jumlah Total Seluruh Jenis Kendaraan Bermotor (Unit), 2016-2018.” [Online]. Available: <https://bandungkota.bps.go.id/indicator/17/173/1/jumlah-total-seluruh-jenis-kendaraan-bermotor.html>
- [2] Toyota adminConnect, “Belajar Phantom Traffic Jam, Mulai dari Sebab, Risiko Jika Diabaikan, Hingga Solusi Pencegahan.” [Online]. Available: <https://www.toyota.astra.co.id/toyota-connect/>
- [3] Badan Pusat Statistik Indonesia, “Jumlah Kecelakaan, Korban Mati, Luka Berat, Luka Ringan, dan Kerugian Materi, 2019-2021,” 2019. [Online]. Available: <https://www.bps.go.id/id/statistics-table/2/NTEzIzI=/jumlah-kecelakaan--korban-mati--luka-berat--luka-ringan--dan-kerugian-materi.html>
- [4] Biro Komunikasi dan Informasi Publik, “Tekan Angka Kecelakaan Lalu Lintas, Kemenhub Ajak Masyarakat Beralih ke Transportasi Umum dan Utamakan Keselamatan Berkendara.” [Online]. Available: <https://dephub.go.id/post/read/%E2%80%8Btekan-angka-kecelakaan-lalu-lintas,-kemenhub-ajak-masyarakat-beralih-ke-transportasi-umum-dan-utamakan-keselamatan-berkendara>
- [5] B. Hermanto, L. Suryo Putranto, D. Dadang, and M. Ma'soem, “Peranan Pengemudi Dalam Kecelakaan Lalu Lintas Jalan: Literature Review,” *JMTS: Jurnal Mitra Teknik Sipil*, vol. 5, no. 3, pp. 597–606, Aug. 2022.
- [6] H. Asyari, F. Maulana, K. Muhammad, and R. A. Imran, “Pengaruh Driving Distraction Penggunaan Smartphone Terhadap Pengemudi Sebagai Penyebab Kecelakaan Lalu Lintas Dengan Multilevel Factorial Investigating Effect Driving Distraction Of Smartphone Use On The Driver As Causes Of Accidents With Multilevel Factorial,” vol. 18, no. 1, pp. 99–108, 2022, [Online]. Available: <http://dinarek.unsoed.ac.id>
- [7] V. P. E. Riska, “Identifikasi Faktor-faktor Penyebab Kecelakaan Lalulintas Jalan Raya Bukittinggi-medan Km 8 Agam,” 2022.
- [8] F. Z. Aryatama and H. Widhiarto, “Analisis Penyebab Kecelakaan Lalu Lintas Di Jalan Empunala Kota Mojokerto,” *Jurnal Teknik Sipil: Rancang Bangun*, vol. 8, no. 2, pp. 150–155, 2022, doi: <https://doi.org/10.33506/rb.v8i2.1805>.
- [9] Badan Pemeriksa Keuangan, “Peraturan Pemerintah Nomor 79 Tahun 2013 Tentang Jaringan Lalu Lintas Dan Angkutan Jalan,” 2013.
- [10] Menteri Perhubungan Indonesia, “Peraturan Menteri Perhubungan Nomor 13 Tahun 2014 tentang Rambu Lalu Lintas,” 2014.
- [11] E. Harahap, A. Suryadi, D. Darmawan, and R. Ceha, “Efektifitas Load Balancing Dalam Mengatasi Kemacetan Lalu Lintas,” vol. 16, no. 2, 2017, [Online]. Available: <http://ejournal.unisba.ac.id>
- [12] Dinas Perhubungan Kota Bandung, “Area Traffic Control System (ATCS).” Accessed: Oct. 20, 2023. [Online]. Available: <https://atcs-dishub.bandung.go.id/>
- [13] Ashish, “How Does Google Maps Know About Traffic Conditions?,” <https://www.scienceabc.com/innovation/how-does-google-maps-know-about-traffic-conditions.html>.
- [14] Kementerian Komunikasi dan Informatika, “Peraturan Direktur Jenderal Sumber Daya Dan Perangkat Pos Dan Informatika Nomor 3 Tahun 2019,” 2019.
- [15] Kementerian Perhubungan Direktorat Jenderal Perhubungan Darat, “Peraturan Direktur Jenderal Perhubungan Darat Tentang Petunjuk Teknis Alat Pemantau

- Pergerakan Kendaraan Secara Elektronik Pada Angkutan Orang dengan Kendaraan Bermotor Umum,” 2019.
- [16] N. Kurniyanti and S. Handayani, “Hubungan Antara Karakteristik Pekerja dengan Kelelahan Kerja pada Pekerja SPBE PD Bumi Wiralodra Indramayu Tahun 2016,” 2017.
- [17] POLDA METRO JAYA, “Segini Jarak Aman Berkendara Menurut TMC Polda Metro Jaya, Jaga Jarak saat Berkendara!,” <https://humas.polri.go.id/2023/03/07/segini-jarak-aman-berkendara-menurut-tmc-polda-metro-jaya-jaga-jarak-saat-berkendara/>.
- [18] Dewan Perwakilan Rakyat Republik Indonesia and Presiden Republik Indonesia, “Undang-undang Republik Indonesia Nomor 22 Tahun 2009 Tentang Lalu Lintas Dan Angkutan Jalan,” 2009.
- [19] M. Ridha Fahlivi, “Sistem Tracking Position Berdasarkan Titik Koordinat GPS Menggunakan Smartphone,” *Jurnal Infomedia*, vol. 2, no. 1, 2017.
- [20] M. Fatoni and U. Bhayangkara Surabaya, “Rancang Bangun Prototipe Pengaman Kendaraan Berbasis GPS Komunikasi Pesan Telegram dan Thingspeak,” *Hal Jurnal ELECTRON*, vol. 2, no. 2, pp. 57–68, 2021, doi: 10.33019/electron.v2i2.1.
- [21] Y. Pratama, D. N. Ramadan, S. Pd, and T. N. Damayanti, “Perancangan GPS Tracking Untuk Penyewaan Kendaraan Bermotor Design of GPS Tracking On Lending Motor Vehicle,” vol. 6, no. 2, p. 2407, Aug. 2020.
- [22] H. Prabowo, Herlawati, and W. P. Mustika, “Sistem Informasi Panduan Trayek Angkutan Umum Berbasis Mobile Smartphone Pada Dinas Perhubungan Jakarta,” vol. 10, no. 1, 2014.
- [23] A. Pramaditya and P. Putra, “Penyusunan Standar Uji Performa Dan Keselamatan Peralatan Battery Management System,” 2019.
- [24] U.S. Space Force, “GPS Performance.” [Online]. Available: <https://www.gps.gov/systems/gps/performance/>
- [25] Indian Space Research Organisation, “Satellite Navigation Services.” [Online]. Available: <https://www.isro.gov.in/SatelliteNavigationServices.html#:~:text=NavIC%20was%20erstwhile%20known%20as,stations%20operating%2024%20x%207>
- [26] Russian State Corporation for Space Activities Roscosmos, “Global Navigation Satellite Systems.” [Online]. Available: <https://glonass-iac.ru/en/iono/maps/>
- [27] China Satellite Navigation Office, “BeiDou Navigation Satellite System.” [Online]. Available: <http://en.beidou.gov.cn/>
- [28] European Union Agency for the Space Programme, “What is Galileo.” [Online]. Available: <https://www.gsc-europa.eu/galileo/what-is-galileo>
- [29] Cabinet Office National Space Policy Secretariat Japan, “Frequently Asked Questions About QZSS.” [Online]. Available: <https://qzss.go.jp/en/overview/faq/index.html>
- [30] The ZigBee Alliance, “ZigBee Specification,” Aug. 2015.
- [31] B. Eric, “LoRa.” [Online]. Available: <https://lora.readthedocs.io/en/latest/#lora>
- [32] Wi-Fi Alliance, “Wi-Fi Specification.” [Online]. Available: <https://www.wi-fi.org/discover-wi-fi/specifications>
- [33] J. Schlien and D. Raddino, “Narrowband Internet of Things Whitepaper NarrowBand IoT.” [Online]. Available: www.rohde-schwarz.com/appnote/
- [34] Sigfox, “Sigfox Device Radio Specifications.” [Online]. Available: <https://build.sigfox.com/sigfox-device-radio-specifications>
- [35] Silicon Laboratories Ltd, “ETRX357 ZigBee ® Module Application Note-Power Consumption.”

- [36] L. Tan, "Comparison of LoRa and NB-IoT in Terms of Power Consumption," 2020.
- [37] O. Akintade, "Power Consumption Test for Bluetooth, ZigBee and Wi-Fi." [Online]. Available: https://www.researchgate.net/figure/Power-Consumption-Test-for-Bluetooth-ZigBee-and-Wi-Fi_tbl1_318054538
- [38] Arduino, "Arduino Documentation." [Online]. Available: <https://docs.arduino.cc/hardware/uno-rev3>
- [39] RS Americas Inc, "Raspberry Pi 3 Product Description." [Online]. Available: <https://us.rs-online.com/m/d/4252b1ecd92888dbb9d8a39b536e7bf2.pdf>
- [40] Espressif Systems, "ESP32 Series Datasheet 2.4 GHz Wi-Fi + Bluetooth ® + Bluetooth LE SoC Including," 2023. [Online]. Available: www.espressif.com
- [41] L. Shenzhen Xunlong Software Co., "Orange Pi 5 User Manual".
- [42] Nvidia Developer, "Jetson Nano." [Online]. Available: <https://developer.nvidia.com/embedded/jetson-nano>
- [43] Raspberry Pi Ltd, "Raspberry Pi Touch Display." [Online]. Available: <https://www.raspberrypi.com/documentation/accessories/display.html>
- [44] Waveshare Co Ltd, "7inch Capacitive Touch Screen LCD (H) with Case, 1024×600, HDMI, IPS, Various Systems Support." [Online]. Available: <https://www.waveshare.com/7inch-hdmi-lcd-h-with-case.htm>
- [45] Waveshare Co Ltd, "13.3inch Capacitive Touch Screen LCD, 1920×1080, HDMI, IPS, Various Systems Support." [Online]. Available: <https://www.waveshare.com/13.3inch-hdmi-lcd-h.htm>
- [46] ITEAD STUDIO, "Nextion NX4024T032." [Online]. Available: <https://nextion.tech/datasheets/nx4024t032/>
- [47] LCD Wiki, "3.95inch Arduino Display-Mega2560."
- [48] Astra Daihatsu, "Berapa Umur Aki Mobil? Simak Cara Merawat Aki Supaya Awet." [Online]. Available: <https://www.astra-daihatsu.id/berita-dan-tips/berapa-umur-aki-mobil#:~:text=Usia%20aki%20mobil%20dapat%20bervariasi,baik%20selama%20%2D3%20tahun.>
- [49] S. Ramdhani and J. Jamari, "The Modeling of A Conceptual Engineering Design System Using the Decision-Matrix Logic," in *MATEC Web of Conferences*, EDP Sciences, Mar. 2018. doi: 10.1051/mateconf/201815902022.
- [50] Semtech Corporation, "LoRa and LoRaWAN: A Technical Overview LoRa® and LoRaWAN®: A Technical Overview," 2020. Accessed: Oct. 13, 2023. [Online]. Available: https://lora-developers.semtech.com/uploads/documents/files/LoRa_and_LoRaWAN-A_Tech_Overview-Downloadable.pdf
- [51] SparkFun Electronics, "U-Blox 6 Receiver Description Including Protocol Specification," 2011. [Online]. Available: <https://cdn.sparkfun.com/datasheets/Sensors/GPS/760.pdf>
- [52] Elecrow-RD, "Lora-RF95-IOT-Board-v1.0." [Online]. Available: <https://github.com/Elecrow-RD/Lora-RF95-IOT-Board-v1.0>
- [53] hallard, "RadioHead." [Online]. Available: <https://github.com/hallard/RadioHead>
- [54] M. Williams, "Using python with a GPS receiver on a Raspberry Pi." [Online]. Available: <https://ozzmaker.com/using-python-with-a-gps-receiver-on-a-raspberry-pi/>
- [55] C. Veness, "Calculate distance, bearing and more between Latitude/Longitude points." [Online]. Available: <http://www.movable-type.co.uk/scripts/latlong.html>
- [56] B. Abdallah, S. Khriji, R. Chéour, C. Lahoud, K. Moessner, and O. Kanoun, "Improving the Reliability of Long-Range Communication against Interference for

Non-Line-of-Sight Conditions in Industrial Internet of Things Applications,”
Applied Sciences (Switzerland), vol. 14, no. 2, Jan. 2024, doi:
10.3390/app14020868.

- [57] Steven, “Convert GPS Coordinates from Degree, Minute, Second to Decimal Degree in Python.” [Online]. Available:
<https://stackoverflow.com/questions/56756752/convert-gps-coordinates-from-degree-minute-second-to-decimal-degree-in-python>